

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY


(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

REC'D 18 APR 2006

WIPO

PCT

Applicant's or agent's file reference N006P01-WO	FOR FURTHER ACTION		See Form PCT/IPEA/416
International application No. PCT/TR2004/000013	International filing date (day/month/year) 27.02.2004	Priority date (day/month/year) 27.02.2004	
International Patent Classification (IPC) or national classification and IPC INV. G06J1/00			
Applicant SARYAL, Nuri			
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 5 sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input type="checkbox"/> sent to the applicant and to the International Bureau) a total of sheets, as follows:</p> <p><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>			
<p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>			
Date of submission of the demand 21.09.2005		Date of completion of this report 18.04.2006	
Name and mailing address of the International preliminary examining authority:  European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016		Authorized officer Filip, L Telephone No. +31 70 340-	



**INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY**

International application No.
PCT/TR2004/000013

Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This report is based on translations from the original language into the following language , which is the language of a translation furnished for the purposes of:

- ☐ international search (under Rules 12.3 and 23.1(b))
- ☐ publication of the international application (under Rule 12.4)
- ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the **elements*** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

Description, Pages

1-12 as originally filed

Claims, Numbers

1-14 as originally filed

Drawings, Sheets

1/12-12/12 as originally filed

☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages
- ☐ the claims, Nos.
- ☐ the drawings, sheets/figs
- ☐ the sequence listing (*specify*):
- ☐ any table(s) related to sequence listing (*specify*):

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages
- ☐ the claims, Nos.
- ☐ the drawings, sheets/figs
- ☐ the sequence listing (*specify*):
- ☐ any table(s) related to sequence listing (*specify*):

* If item 4 applies, some or all of these sheets may be marked "superseded."

**INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY**

International application No.
PCT/TR2004/000013

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	1-14
	No: Claims	
Inventive step (IS)	Yes: Claims	
	No: Claims	1-14
Industrial applicability (IA)	Yes: Claims	1-14
	No: Claims	

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following documents:
D1: EP 0308583 A (AUTOMATION SYSTEMS 29-03-1989)
D2: US 6316992 B1 (DELANO CARY L ET AL 13-11-2001)
2. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 does not involve an inventive step in the sense of Article 33(3) PCT.

D1 discloses:

A hybrid computer comprising at least one cell having at least one integrator circuit in which time dependent input voltage is applied through at least one input resistance and its sign is changed after the integration (Fig. 8), at least one cell having at least one analog integrator circuit in which the input voltage is applied to the inverting input of Opamp to change sign, then applied to at least one resistor (Fig. 6 e), at least one cell having at least one coordinator circuit (Fig. 7) and at least one analog integrator circuit connected to said coordinator circuit (implied, depending on configuration and external commands different output circuits, see Fig. 4, column 8, lines 19-22, 43-46, and column 13 lines 41-47), a micro controller (Fig. 1 - "CONTROLLER LOGIC 300", column 16, lines 5-12) and a digital computer (implied, column 16, lines 5-12 - "...**programable** controller...") including a data acquisition system (Fig. 1 - "DIGITAL SENSORS 201", "ANALOG SENSORS 12"), said hybrid computer characterized in that;

- Analog integrator circuits interconnected over coordinator circuits that perform synchronized and time continuous integration (implied).
- Data transferring from analog circuits to digital computer at desired intervals and displaying the results after processing (implied, column 16, lines 2-4).

The subject-matter of claim 1 therefore differs from D1 in that correcting the errors caused by the drift voltage is done by:

- Disconnection of all analog integrators from each other at required time intervals, loading of the magnified error voltage that occurs when the input voltage of the Opamp's is set to zero, in the memory included in the integrator circuits;
- As the analog integrator circuits are interconnected again, demagnifying the error voltages that are loaded in the memories, by the same ratio of magnification applied during

loading and use it to eliminate error during integration.

The problem to be solved by the present invention may therefore be regarded as how to dynamically and automatically correct the errors caused by the drift voltage in the analog circuits.

The skilled person is aware that D2 addresses the voltage error correction by alternatively disconnecting all analog integrators at periodical time intervals, loading of the magnified error voltage that occurs when the input voltage of the Opamp's is set to zero, in the memory and as the analog integrator circuits are interconnected again, demagnifying the error voltages that are loaded in the memories, by the same ratio of magnification applied during loading (column 4, lines 23-47), and that would solve the above mentioned problem.

3. Dependent claims 2-14 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step, see documents D1, D2 and the corresponding passages cited in the search report.